

TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

#127

Application For Research Grant

Date: March 9, 1956

1. Name of Investigator: 1) R. W. Tiecke
2) J. C. Calandra
2. Title: 1) Associate Professor of Pathology
2) Professor of Pathology
3. Institution
& Address: Northwestern University Dental School
Chicago 11, Illinois
4. Project or Subject: The Role of Tobacco in Oral Cancer

5. Detailed Plan of Procedure (Use reverse side if additional space is needed).

- A. Specific Aims. The aim of the project is to determine whether the use of tobacco acts as a contributing factor in the cause of oral cancer.
- B. Method of Procedure. This will be done by the application of tobacco tars on the oral mucosa of rabbits. The clinical normal appearing oral mucosa of these animals will be examined under the microscope first to serve as a guide for the normal. These materials will be applied to the oral mucosa in varying quantities and for varying periods of time. The animals will be sacrificed at intervals to be determined later and the treated areas examined microscopically. The length of exposure to the tobacco product, location, description of any lesion that arises and microscopic findings will be tabulated.
- C. Significance of this Research. Very little actual work has been done in this field. There are many papers which cite statistics in an attempt to prove that oral cancer is caused by the use of tobacco. However, nothing has been done to prove or disprove this in the laboratory. Evidence pointing one way or another would be a valuable contribution and would point to the interest the dentist too has in the cancer program. This area of the body in relation to cancer is all too often neglected or glossed over and included with cancer of the gastro-intestinal tract or respiratory tract, even though it constitutes from 10 - 15% of all cancer in the human being.

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6. Budget Plan:

1) Soc. Security	\$ 102.00
2) Technician - full time	3,600.00
3) Animal caretaker - half time	1,500.00
Salaries	\$5,202.00
Expendable Supplies	1,725.00
Permanent Equipment	528.00
Overhead	1,118.00
Other	
Total	\$8,573.00

7. Anticipated Duration of Work: Two years -- The above total is for one year.
Total for two years would be \$17,146.00

8. Facilities and Staff Available:

- 1) oral pathologist
- 2) general pathologist
- 3) oral surgeon
- 4) two graduate students
- 5) bacteriological laboratory and equipment
- 6) histopathology laboratory and equipment

9. Additional Requirements:

10. Additional Information (Including relation of work to other projects and other sources of supply):

- 1) Work is being done on Papanicolaou Technique in relation to oral cancer.
- 2) Expect to start work in Tissue Culture in the immediate future.
- 3) An adequate number of patients are available for this project from Cook County Hospital, VA hospitals in the area and from our own clinics.
- 4) After this work is completed, additional work should be done in relation to heart and cancer of the mouth.

Signature s/ Richard W. Tiecke
Director of Project

s/ A. T. Schmehling
Business Officer of the Institution

(Asst. Business Manager)

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